

Abstract

An optical information recording/reproducing apparatus for recording information on an optical information recording medium having an information recording layer made of a holographic material and a reflecting film layer for reflecting incident light, comprising a light source which emits a beam of light projected onto the optical information medium and an optical system for focusing the light beam on the optical information recording medium, wherein interference fringes formed by interference between the focused light beam and light passing through the information recording layer and reflected from the reflecting film layer are recorded on the information recording layer, a beam of light whose intensity is weak enough not to influence the interference fringes is projected onto the interference fringes, and light diffracted by the interference fringes is detected, thereby reproducing the recorded structure.

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